
Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: Mon Oct 15 09:17:02 EDT 2007

Validated By CRFValidator v 1.0.3

Application No: 10560303 Version No: 1.0

Input Set:

Output Set:

Started: 2007-09-26 16:48:14.742

Finished: 2007-09-26 16:48:27.466

Elapsed: 0 hr(s) 0 min(s) 12 sec(s) 724 ms

Total Warnings: 60

Total Errors: 0

No. of SeqIDs Defined: 92

Actual SeqID Count: 92

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2007-09-26 16:48:14.742 **Finished:** 2007-09-26 16:48:27.466

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Total Warnings: 60

Total Errors: 0

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Actual SeqID Count: 92

Err	or code	Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (21)
W	213	Artificial or Unknown found in <213> in SEQ ID (22)
W	213	Artificial or Unknown found in <213> in SEQ ID (23)
W	213	Artificial or Unknown found in <213> in SEQ ID (24)
W	213	Artificial or Unknown found in <213> in SEQ ID (25)
W	213	Artificial or Unknown found in <213> in SEQ ID (26)
W	213	Artificial or Unknown found in <213> in SEQ ID (27)
W	213	Artificial or Unknown found in <213> in SEQ ID (28) This error has occured more than 20 times, will not be displayed
W	402	Undefined organism found in <213> in SEQ ID (39)
W	402	Undefined organism found in <213> in SEQ ID (43)
W	402	Undefined organism found in <213> in SEQ ID (44)
W	402	Undefined organism found in <213> in SEQ ID (46)
W	402	Undefined organism found in <213> in SEQ ID (50)
W	402	Undefined organism found in <213> in SEQ ID (51)
W	402	Undefined organism found in <213> in SEQ ID (54)
W	402	Undefined organism found in <213> in SEQ ID (55)
W	402	Undefined organism found in <213> in SEQ ID (56)
W	402	Undefined organism found in <213> in SEQ ID (59)
W	402	Undefined organism found in <213> in SEQ ID (61)
W	402	Undefined organism found in <213> in SEQ ID (62) This error has occured more than 20 times, will not be displayed

SEQUENCE LISTING

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<110> Inouye, Masayori
      Zhang, Junjie
      Zhang, Yong Long
      Qing, Guoliang
      Suzuki, Motoo
<120> mRNA Interferases and Methods of Use Thereof
<130> University of Medicine & Dentistry of New Jersey (601-1-131PCT)
<140> 10560303
<141> 2007-09-26
<150> PCT/US2004/018571
<151> 2004-06-14
<150> 60/543,693
<151> 2004-02-11
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aacaaaacag gtatgtgtct gtgtgttcct tgtacaacgc aatcaaaagg atatccgttc 180
gaagttgttt tatccggtca ggaacgtgat ggcgtagcgt tagctgatca ggtaaaaagt 240
atcgcctggc gggcaagagg agcaacgaag aaaggaacag ttgccccaga ggaattacaa 300
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<213> E. coli
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Phe Asp Pro Thr Lys Gly Ser Glu Gln Ala Gly His Arg Pro Ala Val
                                                     30
                                25
Val Leu Ser Pro Phe Met Tyr Asn Asn Lys Thr Gly Met Cys Leu Cys
                            40
                                                 45
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Val Pro Cys Thr Thr Gln Ser Lys Gly Tyr Pro Phe Glu Val Val Leu

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<400> 4

Met Glu Arg Gly Glu Ile Trp Leu Val Ser Leu Asp Pro Thr Ala Gly 1 5 10 His Glu Gln Gly Thr Arg Pro Val Leu Ile Val Thr Pro Ala Ala 25 Phe Asn Arg Val Thr Arg Leu Pro Val Val Val Pro Val Thr Ser Gly 40 45 Gly Asn Phe Ala Arg Thr Ala Gly Phe Ala Val Ser Leu Asp Gly Val Gly Ile Arg Thr Thr Gly Val Val Arg Cys Asp Gln Pro Arg Thr Ile 65 70 75 Asp Met Lys Ala Arg Gly Gly Lys Arg Leu Glu Arg Val Pro Glu Thr 90 Ile Met Asn Glu Val Leu Gly Arg Leu Ser Thr Ile Leu Thr 100 105

<210> 5 <211> 249 <212> DNA <213> E. coli

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aaattaatta ttgagccagt gcgtaaagag cccgtattta cgcttgctga actggtcaac 180 gacatcacgc cggaaaacct ccacgagaat atcgactggg gagagccgaa agataaggaa 240 gtctggtaa 249

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<210> 7 <211> 258 <212> DNA <213> E. coli

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Val Trp

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<400> 8

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<220>
<\!223\!> T54 to K77 fragment of E. coli MazE
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                 5
                                    10
Asn Ile Asp Trp Gly Glu Pro Lys
            20
<210> 10
<211> 18
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<213> Artificial Sequence
<220>
<223> N60 to K77 fragment of E. coli MazE
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1
                5
                                    10
                                                         15
Pro Lys
<210> 11
<211> 30
<212> RNA
<213> Artificial Sequence
<220>
<223> synthetic RNA substrate
<400> 11
uaagaaggag auauacauau gaaucaaauc
                                                                    30
<210> 12
<211> 50
<212> DNA
<213> Artificial Sequence
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cyaycataya tyttacatct aactatatat yacatayaty tatactatcy	30
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<210> 14	
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.000	
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ttaaagatcg tcaacgtaac cg	22
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•	
<220>	
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and brings	
<400> 17	
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tgctctttat cccacgggca gc	22
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<212> DNA	
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	24
gcccagttca ccgcgaagat cgtc	24
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*	
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(223) DNA PIIMEI	
//OD 21	
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ttgccagact tcttccattg tttcgag	27
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AND	

<220>	
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cacgttgtcc actttgttca ccgc	24
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cagttcagcg ccgaggaaac gcat	24
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100. 05	
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agaatgtgcg ccatttttca ct
                                                                    22
<210> 29
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<223> DNA fragment
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                                                                    18
catcatcatc atcatcat
<210> 32
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<223> DNA primer
<400> 34
                                                                    21
caggagauac cucaaugauc a
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                                                                    21
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                                                                    21
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gaaatcaaaa agacacgtcc ttgtgtcgta gtctctcctc ctgaaataca caactatctc 120
aagactgtgc tgatcgttcc catgacgagc ggaagccgtc ctgccccgtt ccgcgtcaat 180
gtccgctttc aggataaaga cggtttgctt ttgcccgaac agattagggc tgtggataaa 240\,
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gtattgcagg agatgtttgc ctga
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<213> Morganella morgani
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ccggctgctt ttaaccgcgt gacccgcctg cctgttgttg tgcccgtgac cagcggaggt 180
aattttgccc gcacagcagg ctttgctgtg tcgcttgacg gcgccggcat acgtaccacc 240
ggcgttgtgc gttgcgatca accccggacg atcgatatga aagcccgcgg cggcaaacga 300
ctcgaacggg tgccagagac tatcatggac gacgttcttg gccgtctggc caccatcctg 360
acctga
                                                                   366
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<212> DNA
<213> Mycobacterium tuberculosis
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caacgcgggc ggcgctacgc cgtggtcatc agccccggct cgatgccgtg gagtgtagta 120
accytygtyc cyacytcyac aagcycccaa cctycygttt tccyaccaga yctygaagtc 180
atgggaacaa agacacggtt cctggtggat cagatccgga cgatcggcat cgtctatgtg 240
cacggcgatc cggtcgacta tctggaccgt gaccaaatgg ccaaggtgga acacgccgtg 300
gcacgatacc ttggtctgtg a
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Gln Ser Gly His Asp Gln Ala Gly Thr Arg Pro Ala Ile Val Leu Ser
            20
Pro Lys Leu Phe Asn Lys Asn Thr Gly Phe Ala Val Val Cys Pro Ile
                            40
                                                 45
Thr Arg Gln Gln Lys Gly Tyr Pro Phe Glu Ile Glu Ile Pro Pro Gly
                        55
Leu Pro Ile Glu Gly Val Ile Leu Thr Asp Gln Val Lys Ser Leu Asp
                    70
                                         75
                                                             80
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Trp Arg Ala Arg Asn Phe His Ile Lys Gly Gln Ala Pro Glu Glu Thr 85

Val Thr Asp Cys Leu Gln Leu Ile His Thr Phe Leu Ser

100

105

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Thr Gly Asn Lys Tyr Ser Pro Thr Val Ile Val Ala Ala Ile Thr Asp 35 40 45

Gly Ile Asn Lys Ala Lys Ile Pro Thr His Val Glu Ile Glu Lys Lys
50 55 60

Lys Tyr Lys Leu Asp Lys Asp Ser Val Ile Leu Leu Glu Gln Ile Arg 65 70 75 80

Thr Leu Asp Lys Lys Arg Leu Lys Glu Lys Leu Thr Phe Leu Ser Glu 85 90 95

Ser Lys Met Ile Glu Val Asp Asn Ala Leu Asp Ile Ser Leu Gly Leu 100 105 110

Asn Asn Phe Asp His His Lys Ser 115 120

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<211> 136

<212> PRT

<213> Staphylococcus aureus

<400> 48

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1 10 15

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Thr Gly Asn Lys Tyr Ser Pro Thr Val Ile Val Ala Ala Ile Thr Gly
35 40 45

Arg Ile Asn Lys Ala Lys Ile Pro Thr His Val Glu Ile Glu Lys Lys 50 55 60

Lys Tyr Lys Leu Asp Lys Asp Ser Val Ile Leu Leu Glu Gln Ile Arg 70 75 80

Thr Leu Asp Lys Lys Arg Leu Lys Glu Lys Leu Thr Tyr Leu Ser Asp
85 90 95

Asp Lys Met Lys Glu Val Asp Asn Ala Leu Met Ile Ser Leu Gly Leu

100